

## Test Report

No. TSNEC1800102703

Date: Jan 30, 2018

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MAGNEQUENCH (TIANJIN) CO.,LTD  
 NO.19 QUANZHOU ROAD, WUQING DEVELOPMENT AREA ,TIANJIN  
 301700, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: COMPOUND

SGS Job No: TP18-000191 - TJ  
 Model No.: MQEP-B+(-80M)-20056-077  
 Main Substance: Nd,Pr,B,Co,Fe,Nb,Zr,EPOXY  
 Client Ref. Info.: OTHER MODEL NO: SEE ATTACHMENT  
 Date of Sample Received: 16 Jan, 2018  
 Testing Period: 16 Jan, 2018 - 29 Jan, 2018  
 Test Requested: Selected test(s) as requested by client  
 Test Method: Please refer to next page(s)  
 Test Results: Please refer to next page(s)  
 Conclusion: When tested as specified, Dimethyl fumarate (DMF) content of the submitted sample comply with the requirement of Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Summary :

|   |      |
|---|------|
| According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample. | PASS |
|---|------|

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou  
 Approved Signatory



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## Test Report

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Test Results:

### Test Part Description:

| Specimen No. | SGS Sample ID    | Description  |
|--------------|------------------|--------------|
| SN1          | TSN18-001027.002 | black powder |

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by Ion Chromatograph (IC).

| Test Item(s)  | Unit  | MDL | 002 |
|---------------|-------|-----|-----|
| Fluorine (F)  | mg/kg | 50  | ND  |
| Chlorine (Cl) | mg/kg | 50  | 100 |
| Bromine (Br)  | mg/kg | 50  | ND  |
| Iodine (I)    | mg/kg | 50  | ND  |



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**Element(s)**

Test Method: SGS in house method -TJChemLab-TOP-004-2 (With reference to US EPA 3052: 1996, US EPA 3051A:2007, US EPA 6010C:2007), analyzed by ICP-OES.

| <u>Test Item(s)</u>     | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|-------------------------|-------------|------------|------------|
| Beryllium (Be)          | mg/kg       | 5          | ND         |
| Beryllium oxide (BeO) * | mg/kg       | 15         | ND         |
| Phosphorus (P)          | mg/kg       | 20         | 44         |
| Arsenic (As)            | mg/kg       | 10         | ND         |
| Antimony (Sb)           | mg/kg       | 10         | ND         |
| Bismuth (Bi)            | mg/kg       | 10         | 20         |
| Selenium (Se)           | mg/kg       | 10         | ND         |
| Molybdenum (Mo)         | mg/kg       | 5          | 47         |
| Tin (Sn)                | mg/kg       | 5          | 10         |
| Chromium (Cr)           | mg/kg       | 2          | 55         |
| Silver (Ag)             | mg/kg       | 10         | ND         |
| Barium (Ba)             | mg/kg       | 10         | ND         |
| Thallium (Tl)           | mg/kg       | 5          | ND         |
| Vanadium(V)             | mg/kg       | 20         | ND         |
| Tellurium (Te)          | mg/kg       | 10         | ND         |

**Notes:**

- (1) \*Calculated concentration of BeO is based on the identified Be
- (2) This test of Tl, V,Te was subcontracted to SGS Shanghai chemical lab.

**Nonylphenol (NP), Octylphenol (OP)**

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by LC-MS/MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Nonylphenol(NP)     | mg/kg       | 50         | ND         |
| Octylphenol(OP)     | mg/kg       | 50         | ND         |



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(1) NP Reference Information: Entry 46 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2003/53/EC): Shall not be placed on the market, or used, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight for industrial and institutional cleaning, domestic cleaning, textiles and leather processing, emulsifier in agricultural teat dips, metal working, manufacturing of pulp and paper, cosmetic products, other personal care products and co-formulants in pesticides and biocides.  
Please refer to Regulation (EC) No 552/2009 to get more detail information

### Polychlorinated Naphthalenes (PCNs)

Test Method: SGS in house method -TJChemLab-TOP-043 (With reference to US EPA 3550C:2007、US EPA8082:2007), analysis was performed by GC-MS.

| <u>Test Item(s)</u>                    | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|-------------|------------|------------|
| 1-Chlorinated Naphthalene              | mg/kg       | 5          | ND         |
| 2-Chlorinated Naphthalene              | mg/kg       | 5          | ND         |
| 1,4-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,5-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,2-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,8-Dichlorinated Naphthalene          | mg/kg       | 5          | ND         |
| 1,2,3-Trichlorinated Naphthalene       | mg/kg       | 5          | ND         |
| 1,2,3,4-Tetrachlorinated Naphthalene   | mg/kg       | 5          | ND         |
| 1,2,3,4,6-Pentachlorinated Naphthalene | mg/kg       | 5          | ND         |
| Octa-chlorinated Naphthalene           | mg/kg       | 5          | ND         |

### Organic-tin compounds

Test Method: With reference to ISO 17353: 2004, analysis was performed by GC-MS.

| <u>Test Item(s)</u>      | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------|-------------|------------|------------|
| Monobutyl tin (MBT)      | mg/kg       | 0.02       | ND         |
| Dibutyl tin (DBT)        | mg/kg       | 0.02       | ND         |
| Tributyl tin (TBT)       | mg/kg       | 0.02       | ND         |
| Monooctyl tin (MOT)      | mg/kg       | 0.02       | ND         |
| Diocetyl tin (DOT)       | mg/kg       | 0.02       | ND         |
| Tricyclohexyl tin (TCyT) | mg/kg       | 0.02       | ND         |
| Triphenyl tin (TPT)      | mg/kg       | 0.02       | ND         |
| Tetrabutyl tin (TTBT)    | mg/kg       | 0.02       | ND         |
| Tri-n-propyl tin(TPrT)   | mg/kg       | 0.02       | ND         |
| Triocetyl tin (TOT)      | mg/kg       | 0.02       | ND         |

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### ODS

Test Method: With reference to US EPA 5021A-2003, analysis was performed by HS-GC-MS.

| Test Item(s) | CAS_NO    | Unit | MDL | 002 |
|--------------|-----------|------|-----|-----|
| CFC          |           | -    | -   | -   |
| CFC-11       | 75-69-4   | µg/g | 0.1 | ND  |
| CFC-12       | 75-71-8   | µg/g | 0.1 | ND  |
| CFC-113      | 76-13-1   | µg/g | 0.1 | ND  |
| CFC-114      | 76-14-2   | µg/g | 0.1 | ND  |
| CFC-13       | 75-72-9   | µg/g | 0.1 | ND  |
| CFC-111      | 354-56-3  | µg/g | 0.1 | ND  |
| CFC-112      | 76-11-9   | µg/g | 0.1 | ND  |
| CFC-112      | 76-12-0   | µg/g | 0.1 | ND  |
| CFC-113      | 354-58-5  | µg/g | 0.1 | ND  |
| CFC-114      | 374-07-2  | µg/g | 0.1 | ND  |
| CFC-115      | 76-15-3   | µg/g | 0.1 | ND  |
| CFC-211      | 422-78-6  | µg/g | 0.1 | ND  |
| CFC-212      | 661-96-1  | µg/g | 0.1 | ND  |
| CFC-213      | 1652-89-7 | µg/g | 0.1 | ND  |
| CFC-214      | 677-68-9  | µg/g | 0.1 | ND  |
| CFC-215      | 1599-41-3 | µg/g | 0.1 | ND  |
| CFC-215      | 76-17-5   | µg/g | 0.1 | ND  |
| CFC-216      | 661-97-2  | µg/g | 0.1 | ND  |
| CFC-216      | 1652-80-8 | µg/g | 0.1 | ND  |
| CFC-217      | 422-86-6  | µg/g | 0.1 | ND  |
| HCFC         |           | -    | -   | -   |
| HCFC-21      | 75-43-4   | µg/g | 0.1 | ND  |
| HCFC-22      | 75-45-6   | µg/g | 0.1 | ND  |
| HCFC-123     | 306-83-2  | µg/g | 0.1 | ND  |
| HCFC-124     | 2837-89-0 | µg/g | 0.1 | ND  |
| HCFC-141b    | 1717-00-6 | µg/g | 0.1 | ND  |
| HCFC-142b    | 75-68-3   | µg/g | 0.1 | ND  |
| HCFC-31      | 593-70-4  | µg/g | 0.1 | ND  |
| HCFC-121     | 354-14-3  | µg/g | 0.1 | ND  |
| HCFC-122     | 354-21-2  | µg/g | 0.1 | ND  |
| HCFC-123a    | 354-23-4  | µg/g | 0.1 | ND  |
| HCFC-124a    | 354-25-6  | µg/g | 0.1 | ND  |

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| Test Item(s) | CAS NO      | Unit | MDL | 002 |
|--------------|-------------|------|-----|-----|
| HCFC-131     | 359-28-4    | µg/g | 0.1 | ND  |
| HCFC-131a    | 811-95-0    | µg/g | 0.1 | ND  |
| HCFC-132a    | 471-43-2    | µg/g | 0.1 | ND  |
| HCFC-132b    | 1649-08-7   | µg/g | 0.1 | ND  |
| HCFC-133a    | 75-88-7     | µg/g | 0.1 | ND  |
| HCFC-221     | 422-26-4    | µg/g | 0.1 | ND  |
| HCFC-222     | 422-30-0    | µg/g | 0.1 | ND  |
| HCFC-223     | 422-52-6    | µg/g | 0.1 | ND  |
| HCFC-225ca   | 422-56-0    | µg/g | 0.1 | ND  |
| HCFC-225cb   | 507-55-1    | µg/g | 0.1 | ND  |
| HCFC-226     | 431-87-8    | µg/g | 0.1 | ND  |
| HCFC-231     | 421-94-3    | µg/g | 0.1 | ND  |
| HCFC-232     | 460-89-9    | µg/g | 0.1 | ND  |
| HCFC-233     | 7125-84-0   | µg/g | 0.1 | ND  |
| HCFC-234     | 425-94-5    | µg/g | 0.1 | ND  |
| HCFC-235     | 460-92-4    | µg/g | 0.1 | ND  |
| HCFC-241     | 666-27-3    | µg/g | 0.1 | ND  |
| HCFC-242     | 460-63-9    | µg/g | 0.1 | ND  |
| HCFC-243     | 338-75-0    | µg/g | 0.1 | ND  |
| HCFC-244     | 679-85-6    | µg/g | 0.1 | ND  |
| HCFC-251     | 421-41-0    | µg/g | 0.1 | ND  |
| HCFC-252     | 819-00-1    | µg/g | 0.1 | ND  |
| HCFC-253     | 460-35-5    | µg/g | 0.1 | ND  |
| HCFC-261     | 7799-56-6   | µg/g | 0.1 | ND  |
| HCFC-261     | 420-97-3    | µg/g | 0.1 | ND  |
| HCFC-271     | 430-55-7    | µg/g | 0.1 | ND  |
| HCFC-262     | 102738-79-4 | µg/g | 0.1 | ND  |
| HCFC-262     | 420-99-5    | µg/g | 0.1 | ND  |
| Halon        | -           | -    | -   | -   |
| Halon 1211   | 353-59-3    | µg/g | 0.1 | ND  |
| Halon 1301   | 75-63-8     | µg/g | 0.1 | ND  |
| Halon 2402   | 124-73-2    | µg/g | 0.1 | ND  |
| HFC          | -           | -    | -   | -   |
| HFC-23       | 75-46-7     | µg/g | 0.1 | ND  |
| HFC-32       | 75-10-5     | µg/g | 0.1 | ND  |
| HFC-41       | 593-53-3    | µg/g | 0.1 | ND  |
| HFC-43-10mee |             | µg/g | 0.1 | ND  |

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|---------------------------|------------|------|-----|-----|
| HFC-125                   | 354-33-6   | µg/g | 0.1 | ND  |
| HFC-134                   | 359-35-3   | µg/g | 0.1 | ND  |
| HFC-134a                  | 811-97-2   | µg/g | 0.1 | ND  |
| HFC-152a                  | 75-37-6    | µg/g | 0.1 | ND  |
| HFC-143                   | 420-46-2   | µg/g | 0.1 | ND  |
| HFC-143a                  | 430-66-0   | µg/g | 0.1 | ND  |
| HFC-227ea                 |            | µg/g | 0.1 | ND  |
| HFC-236cb                 |            | µg/g | 0.1 | ND  |
| HFC-236ea                 | 431-63-0   | µg/g | 0.1 | ND  |
| HFC-236fa                 | 690-39-1   | µg/g | 0.1 | ND  |
| HFC-245ca                 | 679-86-7   | µg/g | 0.1 | ND  |
| HFC-245fa                 |            | µg/g | 0.1 | ND  |
| HFC-365mfc                |            | µg/g | 0.1 | ND  |
| PFC                       |            | -    | -   | -   |
| Perfluoromethane          | 75-73-0    | µg/g | 0.1 | ND  |
| Perfluoroethane           | 76-16-4    | µg/g | 0.1 | ND  |
| Perfluoropropane          | 76-19-7    | µg/g | 0.1 | ND  |
| Perfluorobutane           | 355-25-9   | µg/g | 0.1 | ND  |
| Perfluoropentane          | 678-26-2   | µg/g | 0.1 | ND  |
| Perfluorohexane           | 355-42-0   | µg/g | 0.1 | ND  |
| Perfluorocyclobutane      | 115-25-3   | µg/g | 0.1 | ND  |
| CHC                       |            | -    | -   | -   |
| 1,3-dichloropropane       | 142-28-9   | µg/g | 0.1 | ND  |
| 2,2-dichloropropane       | 594-20-7   | µg/g | 0.1 | ND  |
| Carbon tetrachloride      | 56-23-5    | µg/g | 0.1 | ND  |
| chloroethane              | 75-00-3    | µg/g | 0.1 | ND  |
| Chloroform                | 67-66-3    | µg/g | 0.1 | ND  |
| chloromethane             | 74-87-3    | µg/g | 0.1 | ND  |
| Cis-1,2-dichloroethene    | 156-59-2   | µg/g | 0.1 | ND  |
| Cis-1,3-dichloropropene   | 10061-01-5 | µg/g | 0.1 | ND  |
| Hexachlorobutadiene       | 87-68-3    | µg/g | 0.1 | ND  |
| Methylene chloride        | 75-09-2    | µg/g | 0.1 | ND  |
| Tetrachloroethene         | 127-18-4   | µg/g | 0.1 | ND  |
| Trans-1,2-dichloroethene  | 156-60-5   | µg/g | 0.1 | ND  |
| Trans-1,3-dichloropropene | 10061-02-6 | µg/g | 0.1 | ND  |
| Trichloroethylene         | 79-01-6    | µg/g | 0.1 | ND  |
| 1,1,1,2-tetrachloroethane | 630-20-6   | µg/g | 0.1 | ND  |

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| Test Item(s)              | CAS NO   | Unit | MDL | 002 |
|---------------------------|----------|------|-----|-----|
| 1,1,1-trichloroethane     | 71-55-6  | µg/g | 0.1 | ND  |
| 1,1,2,2-tetrachloroethane | 79-34-5  | µg/g | 0.1 | ND  |
| 1,1,2-trichloroethane     | 79-00-5  | µg/g | 0.1 | ND  |
| 1,1-dichloroethane        | 75-34-3  | µg/g | 0.1 | ND  |
| 1,1-dichloroethene        | 75-35-4  | µg/g | 0.1 | ND  |
| 1,1-dichloropropene       | 563-58-6 | µg/g | 0.1 | ND  |
| 1,2,3-trichloropropane    | 96-18-4  | µg/g | 0.1 | ND  |
| 1,2-dichloroethane        | 107-06-2 | µg/g | 0.1 | ND  |
| 1,2-dichloropropane       | 78-87-5  | µg/g | 0.1 | ND  |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

### Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TCP)

Test Method : With reference to ISO 17070: 2015, analysis was performed by GC-ECD or GC-MS. .

| Test Item(s)                             | Unit  | MDL  | 002 |
|--|-------|------|-----|
| Pentachlorophenol (PCP)                  | mg/kg | 0.5  | ND  |
| 2,3,4,5-Tetrachlorophenol (2,3,4,5-TECP) | mg/kg | 0.5  | ND  |
| 2,3,5,6-Tetrachlorophenol (2,3,5,6-TECP) | mg/kg | 0.5  | ND  |
| 2,3,4,6-Tetrachlorophenol (2,3,4,6-TECP) | mg/kg | 0.5  | ND  |
| 2,4,6-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| 2,3,6-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| 2,3,5-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| 2,4,5-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| 2,3,4-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| 3,4,5-Trichlorophenols(TCP)              | mg/kg | 0.05 | ND  |
| Total TCP                                | mg/kg | -    | ND  |



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**Hexachlorobenzene (HCB)**

Test Method : With reference to US EPA 8081B: 2007/ 3620C: 2007/ 3630C:1996/3540C:1996, analysis was performed by GC-ECD.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|----------------|-------------|------------|------------|
| Hexachlorobenzene   | 118-74-1       | mg/kg       | 0.1        | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Acetaldehyde Content**

Test Method: With reference to US EPA 5021A:2003/US EPA 8260C:2006. Analysis was performed by HS-GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|---------------|-------------|------------|------------|
| Acetaldehyde        | 75-07-0       | µg/g        | 2.5        | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Ethylene oxide**

Test Method: SGS In house method(SHTC-CHEM-SOP-143-T), analysis was performed by HS-GC-MS

| <u>Test Item(s)</u> | <u>CAS NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|---------------|-------------|------------|------------|
| Ethylene oxide      | 75-21-8       | mg/kg       | 5          | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.



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**Vinyl Chloride Monomer (VCM)**

Test Method: According to GB/T4615-2013, analysis was performed by HS-GC-FID.

| <u>Test Item(s)</u>         | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|-----------------------------|-------------|------------|------------|
| VCM(Vinyl Chloride Monomer) | mg/kg       | 0.1        | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)**

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS.

| <u>Test Item(s):</u>               | <u>Recommended<br/>Max. Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------------------|-----------------------------------|-------------|------------|------------|
| Perfluorooctane Sulfonates (PFOS)^ | 10                                | mg/kg       | 10         | ND         |
| Perfluorooctanoic Acid (PFOA)      | -                                 | mg/kg       | 10         | ND         |

Note:

(1) Max. limit specified by commission regulation (EU) No. 757/2010 amending Regulation (EC) No 850/2004 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006).

(2) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.



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**Asbestos**

Test Method : With reference to NIOSH 9000:2015 and ISO 22262-1:2012. analysis was performed by X-ray diffractometer (XRD) and Polarized light microscope (PLM).

| <u>Test Item(s)</u> | <u>CAS NO</u>              | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|----------------------------|-------------|------------|------------|
| Actinolite          | 77536-66-4                 | %(w/w)      | 0.1        | Negative   |
| Amosite             | 12172-73-5                 | %(w/w)      | 0.1        | Negative   |
| Anthophyllite       | 77536-67-5                 | %(w/w)      | 0.1        | Negative   |
| Chrysotile          | 12001-29-5/<br>132207-32-0 | %(w/w)      | 0.1        | Negative   |
| Crocidolite         | 12001-28-4                 | %(w/w)      | 0.1        | Negative   |
| Tremolite           | 77536-68-6                 | %(w/w)      | 0.1        | Negative   |

Notes :

- (1) Negative = the absence of asbestos, Positive = the presence of asbestos.
- (2) This test was subcontracted to SGS Shanghai chemical lab.

**Volatile Organic Compounds (VOCs)**

Test Method: With reference to US EPA 5021A:2003, analysis was performed by HS-GC-MS

| <u>Test Item(s)</u> | <u>CAS NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|---------------|-------------|------------|------------|
| Dichloromethane     | 75-09-2       | µg/g        | 1          | ND         |
| Benzene             | 71-43-2       | µg/g        | 1          | ND         |
| Nitrobenzene        | 98-95-3       | mg/kg       | 5          | ND         |
| Phenol              | 108-95-2      | mg/kg       | 5          | ND         |

- Notes: (1) Results reported on the submitted sample as received.  
 (2) This test was subcontracted to SGS Shanghai chemical lab.



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**Volatile Organic Compounds (VOCs)**

Test Method : With reference to US EPA 5021A:2003, analysis was performed by HS-GC-MS.

| <u>Test Item(s)</u>   | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|-----------------------|----------------|-------------|------------|------------|
| 1,1,1-Trichloroethane | 71-55-6        | µg/g        | 1          | ND         |
| 1,1,2-Trichloroethane | 79-00-5        | µg/g        | 1          | ND         |
| 1,2-Dibromoethane     | 106-93-4       | µg/g        | 1          | ND         |
| Carbon tetrachloride  | 56-23-5        | µg/g        | 1          | ND         |

- Notes: (1) Results reported on the submitted sample as received.  
 (2) This test was subcontracted to SGS Shanghai chemical lab.

**Tetrabromobisphenol A (TBBP-A)**

Test Method: SGS in house method-TJChemLab-TOP-036-2 (With reference to US EPA 3550C: 2007、US EPA 3540C:1996、US EPA 8270D:2014), analyzed by GC-MS.

| <u>Test Item(s)</u>            | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------------|-------------|------------|------------|
| Tetrabromobisphenol A (TBBP-A) | mg/kg       | 10         | ND         |

**Formaldehyde**

Test Method: With reference to ISO 17226-1: 2008, analysis was performed by HPLC-DAD.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Formaldehyde        | mg/kg       | 16         | ND         |



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**Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006 - Dimethyl fumarate(DMF)**

Test Method: SGS in house method -TJChemLab-TOP-064 (With reference to US EPA 3550C:2007、US EPA 8270D:2014), analysis was performed by GC-MS.

| <u>Test Item(s):</u>   | <u>Recommended<br/>Max. Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------|-----------------------------------|-------------|------------|------------|
| Dimethyl fumarate(DMF) | 0.1                               | mg/kg       | 0.1        | ND         |

**Mirex**

Test Method: With reference to US EPA 8081B: 2007, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS_NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|---------------|-------------|------------|------------|
| Mirex               | 2385-85-5     | mg/kg       | 5          | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Cationic Surfactants**

Test Method: With reference to US EPA Method 3550C:2007, analysis was performed by LC-MS.

| <u>Test Item(s)</u>          | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|------------------------------|-------------|------------|------------|
| DTDMAC、DODMAC/DSDMAC、DHTDMAC | mg/kg       | 40         | ND         |
| DTDMAC                       | mg/kg       | 20         | ND         |
| DODMAC/DSDMAC                | mg/kg       | 10         | ND         |
| DHTDMAC                      | mg/kg       | 10         | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.



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**Bisphenol-A**

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-DAD-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Bisphenol-A         | mg/kg       | 1          | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Triclosan**

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Triclosan           | mg/kg       | 10         | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Polyvinyl chloride (PVC)**

Test Method: SGS in-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR/HATR.

| <u>Test Item(s)</u>      | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------|-------------|------------|------------|
| Polyvinyl chloride (PVC) | -           | -          | Negative   |

Notes: (1) Negative = Undetectable, Positive = Detectable.  
 (2) This test was subcontracted to SGS Shanghai chemical lab.

**Hexabromocyclododecane (HBCDD)**

Test Method: SGS in house method-TJChemLab-TOP-059 (With reference to US EPA 3550C: 2007、US EPA 8270D:2014), analyzed by GC-MS..



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| <u>Test Item(s)</u>            | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--------------------------------|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD) | mg/kg       | 10         | ND         |

**Polychlorinated Terphenyls (PCTs)**

Test Method: SGS in house method - TJChemLab-TOP-043 (With reference to US EPA 3550C:2007、US EPA8082:2007), analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Aroclor 5432        | mg/kg       | 5          | ND         |
| Aroclor 5442        | mg/kg       | 5          | ND         |
| Aroclor 5460        | mg/kg       | 5          | ND         |

**Notes:**

- (1) PCTs Reference Information: Entry 1 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 89/677/EC) Shall not be placed on the market, or used:
  - as substances,
  - In mixtures, including waste oils, or in equipment, in concentrations greater than 50 mg/kg (0,005 % by weight).
 Please refer to Regulation (EC) No 552/2009 to get more detail information

**Musketone**

Test Method: SGS in house method-TJChemLab-TOP-058 (With reference to US EPA 3550C:2007、US EPA 3540C:1996、US EPA 8270D:2014), analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------|-------------|------------|------------|
| Musk Ketone         | mg/kg       | 10         | ND         |



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### Polycyclic aromatic hydrocarbons (PAHs)

Test Method :. With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

| <u>Test Item(s)</u>   | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---|-------------|------------|------------|
| Naphthalene(NAP)  | mg/kg       | 0.1        | ND         |
| Acenaphthylene(ANY)   | mg/kg       | 0.1        | ND         |
| Acenaphthene(ANA)   | mg/kg       | 0.1        | ND         |
| Fluorene(FLU)   | mg/kg       | 0.1        | ND         |
| Phenanthrene(PHE)   | mg/kg       | 0.1        | ND         |
| Anthracene(ANT)   | mg/kg       | 0.1        | ND         |
| Fluoranthene(FLT)   | mg/kg       | 0.1        | ND         |
| Pyrene(PYR)   | mg/kg       | 0.1        | ND         |
| Benzo(a)anthracene(BaA)   | mg/kg       | 0.1        | ND         |
| Chrysene(CHR)   | mg/kg       | 0.1        | ND         |
| Benzo(k)fluoranthene(BkF)   | mg/kg       | 0.1        | ND         |
| Benzo(a)pyrene(BaP)   | mg/kg       | 0.1        | ND         |
| Benzo(e)pyrene(BeP)   | mg/kg       | 0.1        | ND         |
| Indeno(1,2,3-c,d)pyrene(IPY)  | mg/kg       | 0.1        | ND         |
| Dibenzo(a,h)anthracene(DBA)   | mg/kg       | 0.1        | ND         |
| Benzo(g,h,i)perylene(BPE)   | mg/kg       | 0.1        | ND         |
| Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF)                                       | mg/kg       | 0.1        | ND         |
| Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | mg/kg       | -          | ND         |
| Sum of 18 PAHs  | mg/kg       | -          | ND         |



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**AfPS ( German commission for Product Safety ) : GS PAHs requirements**

| Parameter   | Category 1  | Category 2   |                             | Category 3   |                             |
|---|---|--|-----------------------------|--|-----------------------------|
|   | Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s). | Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact. |                             | Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact). |                             |
|   |   | Toy under 2009/48/EC   | Other products under ProdSG | Toy under 2009/48/EC   | Other products under ProdSG |
| Benzo(a)pyrene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(e)pyrene Mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(a)anthracene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(b)fluoranthene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(j)fluoranthene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(k)fluoranthene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Chrysene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Dibenzo(a,h)anthracene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Benzo(g,h,i)perylene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Indeno(1,2,3-cd)pyrene mg/kg  | < 0.2   | < 0.2  | < 0.5                       | < 0.5  | < 1                         |
| Acenaphthylene, Acenaphthene, fluorene,phenanthrene , pyrene, anthracene, fluoranthene, mg/kg | < 1 Sum   | < 5 Sum  | < 10 Sum                    | < 20 Sum   | < 50 Sum                    |
| Naphthalene, mg/kg  | < 1   | < 2  |                             | < 10   |                             |
| Sum of 18 PAHs  | <1  | < 5  | < 10                        | < 20   | < 50                        |

**Remark:**

- (1) The German committee on Product Safety (AfPS) adopted a new PAHs document on August 4, 2014, which is taken into account by the GS certification bodies for the certification process of the GS mark now. The transitional arrangements and deadlines contained therein shall determine the procedure for existing certificates and new certificates; also there are exceptions.



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**Benzotriazole UV Absorbant**

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

| <u>Test Item(s)</u>  | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|-------------|------------|------------|
| 2-(3,5-Di-tert-butyl-2-hydroxyphenyl) benzotriazole (UV-320) (CAS No: 3846-71-7)             | mg/kg       | 5          | ND         |
| 2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)-5-chloro benzotriazole (UV-327) (CAS No: 3864-99-1) | mg/kg       | 5          | ND         |
| 2-(2'-hydroxy-3',5'-di-tert- amylphenyl) benzotriazole (UV-328) (CAS No: 25973-55-1)         | mg/kg       | 5          | ND         |
| TinUVin 350 (UV-350) (CAS No: 36437-37-3)  | mg/kg       | 5          | ND         |

Notes: (1) This test was subcontracted to SGS Shanghai chemical lab.

**Polychlorinated Biphenyls (PCBs)**

Test Method: SGS in house method -TJChemLab-TOP-043 (With reference to US EPA 3550C: 2007、US EPA8082:2007), analyzed by GC-MS.

| <u>Test Item(s)</u>                            | <u>CAS_NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|---------------|-------------|------------|------------|
| 2,4,4'-Trichlorobiphenyl (PCB 28)              | 7012-37-5     | mg/kg       | 0.5        | ND         |
| 2,2'.5.5'-Tetrachloro-biphenyl (PCB 52)        | 35693-99-3    | mg/kg       | 0.5        | ND         |
| 2,2'.4.5.5'-Pentachloro-biphenyl (PCB 101)     | 37680-73-2    | mg/kg       | 0.5        | ND         |
| 2,3'.4.4'.5-Pentachlorobiphenyl (PCB 118)      | 31508-00-6    | mg/kg       | 0.5        | ND         |
| 2,2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138)    | 35065-28-2    | mg/kg       | 0.5        | ND         |
| 2,2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153)   | 35065-27-1    | mg/kg       | 0.5        | ND         |
| 2,2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180) | 35065-29-3    | mg/kg       | 0.5        | ND         |



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**Short Chained Chlorinated Paraffin (SCCP) and Medium-Chained Chlorinated Paraffins (MCCP)**

Test Method: With reference to ISO 18219: 2015. Analysis was performed by GC-ECD / GC-NCI-MS

| <u>Test Item(s)</u>                                  | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|-------------|------------|------------|
| Short Chained Chlorinated Paraffin (SCCP)(C10-C13)   | mg/kg       | 50         | ND         |
| Medium-Chained Chlorinated Paraffins (MCCP)(C14-C17) | mg/kg       | 50         | ND         |

**Azo Dyes**

Test Method : According to Ref. EN 14362-1:2012- Analysis was conducted with GC-MS/HPLC-DAD.

| <u>Test Item(s)</u>  | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|----------------|-------------|------------|------------|
| 4-Aminobiphenyl  | 92-67-1        | mg/kg       | 5          | ND         |
| Benzidine  | 92-87-5        | mg/kg       | 5          | ND         |
| 4-Chlor-o-toluidine  | 95-69-2        | mg/kg       | 5          | ND         |
| 2-Naphthylamine  | 91-59-8        | mg/kg       | 5          | ND         |
| o-Aminoazotoluene  | 97-56-3        | mg/kg       | 5          | ND         |
| 5-nitro-o-toluidine / 2-Amino-4-nitrotoluene                             | 99-55-8        | mg/kg       | 5          | ND         |
| 4-Chloroaniline  | 106-47-8       | mg/kg       | 5          | ND         |
| 4-methoxy-m-phenylenediamine/2,4-Diaminoanisole                          | 615-05-4       | mg/kg       | 5          | ND         |
| 4,4'-Diaminodiphenylmethane  | 101-77-9       | mg/kg       | 5          | ND         |
| 3,3'-Dichlorobenzidine   | 91-94-1        | mg/kg       | 5          | ND         |
| 3,3'-Dimethoxybenzidine  | 119-90-4       | mg/kg       | 5          | ND         |
| 3,3'-Dimethylbenzidine   | 119-93-7       | mg/kg       | 5          | ND         |
| 4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0       | mg/kg       | 5          | ND         |
| p-Cresidine  | 120-71-8       | mg/kg       | 5          | ND         |
| 4,4'-Methylene-bis-(2-chloroaniline)                                     | 101-14-4       | mg/kg       | 5          | ND         |
| 4,4'-Oxydianiline  | 101-80-4       | mg/kg       | 5          | ND         |
| 4,4'-Thiodianiline   | 139-65-1       | mg/kg       | 5          | ND         |
| o-Toluidine  | 95-53-4        | mg/kg       | 5          | ND         |

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| Test Item(s)   | CAS NO.  | Unit  | MDL | 002 |
|--|----------|-------|-----|-----|
| 4-methyl-m-phenylenediamine /<br>2,4-Toluylendiamine | 95-80-7  | mg/kg | 5   | ND  |
| 2,4,5-Trimethylaniline                               | 137-17-7 | mg/kg | 5   | ND  |
| 4-aminoazobenzene                                    | 60-09-3  | mg/kg | 5   | ND  |
| O-Anisidine  | 90-04-0  | mg/kg | 5   | ND  |
| 2,6 – Xylidine                                       | 87-62-7  | mg/kg | 5   | ND  |
| 2,4 – Xylidine                                       | 95-68-1  | mg/kg | 5   | ND  |

### Notes :

- (1) The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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### Phthalates

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

| Test Item(s)  | CAS NO                    | Unit    | MDL   | 002 |
|---|---------------------------|---------|-------|-----|
| Diisononyl Phthalate (DINP)   | 28553-12-0/<br>68515-48-0 | % (w/w) | 0.01  | ND  |
| Di-n-octyl Phthalate (DNOP)   | 117-84-0                  | % (w/w) | 0.003 | ND  |
| Diisodecyl Phthalate (DIDP)   | 26761-40-0/<br>68515-49-1 | % (w/w) | 0.01  | ND  |
| Dimethyl Phthalate (DMP)  | 131-11-3                  | % (w/w) | 0.003 | ND  |
| Diethyl Phthalate (DEP)   | 84-66-2                   | % (w/w) | 0.003 | ND  |
| Dipropyl Phthalate (DPrP)   | 131-16-8                  | % (w/w) | 0.003 | ND  |
| Di-n-pentyl Phthalate (DnPP)  | 131-18-0                  | % (w/w) | 0.003 | ND  |
| Di-n-hexyl Phthalate (DnHP)   | 84-75-3                   | % (w/w) | 0.003 | ND  |
| Dicyclohexyl Phthalate (DCHP)   | 84-61-7                   | % (w/w) | 0.003 | ND  |
| Diphenyl Phthalate (DPhP)   | 84-62-8                   | % (w/w) | 0.003 | ND  |
| Dibenzyl Phthalate (DBzP)   | 523-31-9                  | % (w/w) | 0.003 | ND  |
| Dinonyl Phthalate (DNP)   | 84-76-4                   | % (w/w) | 0.003 | ND  |
| Diisooctyl Phthalate (DIOP)   | 27554-26-3                | % (w/w) | 0.01  | ND  |
| Bis(2-methoxyethyl) Phthalate (DMEP)  | 117-82-8                  | % (w/w) | 0.003 | ND  |
| Diallyl Phthalate (DAP)   | 131-17-9                  | % (w/w) | 0.003 | ND  |
| n-decyl, n-octyl Phthalate (nDnOP)  | 119-07-3                  | % (w/w) | 0.003 | ND  |
| Di-n-decyl Phthalate (DnDP)   | 84-77-5                   | % (w/w) | 0.003 | ND  |
| Bis(4-methyl-2-pentyl) Phthalate (BMPP)   | 146-50-9                  | % (w/w) | 0.003 | ND  |
| Bis(2-ethoxyethyl) Phthalate (DEEP)   | 605-54-9                  | % (w/w) | 0.003 | ND  |
| Bis(2-n-butoxyethyl) Phthalate (DBEP)   | 117-83-9                  | % (w/w) | 0.003 | ND  |
| Diisopentyl Phthalate (DIPP)  | 605-50-5                  | % (w/w) | 0.003 | ND  |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6                | % (w/w) | 0.01  | ND  |
| Diundecyl Phthalate (DUDP)  | 3648-20-2                 | % (w/w) | 0.003 | ND  |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)          | 84777-06-0                | % (w/w) | 0.01  | ND  |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4                | % (w/w) | 0.01  | ND  |
| Dibutyl Phthalate (DBP)   | 84-74-2                   | % (w/w) | 0.003 | ND  |
| Benzylbutyl Phthalate (BBP)   | 85-68-7                   | % (w/w) | 0.003 | ND  |
| Bis-(2-ethylhexyl) Phthalate (DEHP)   | 117-81-7                  | % (w/w) | 0.003 | ND  |
| Diisobutyl Phthalate (DIBP)   | 84-69-5                   | % (w/w) | 0.003 | ND  |

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| <u>Test Item(s)</u>  | <u>CAS NO</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|--|---------------|-------------|------------|------------|
| Diheptyl phthalate (DHpP)  | 3648-21-3     | % (w/w)     | 0.003      | ND         |
| Diisononyl adipate (DINA)  | 33703-08-1    | % (w/w)     | 0.003      | ND         |
| n-pentyl Isopentyl Phthalate (nPIPP)                                   | 776297-69-9   | % (w/w)     | 0.003      | ND         |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP) | 68515-50-4    | % (w/w)     | 0.01       | ND         |
| Bis(2-ethylhexyl) terephthalate (DOTP)                                 | 6422-86-2     | % (w/w)     | 0.003      | ND         |

### Notes:

- (1) DBP, BBP, DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles.
  - ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1% by weight of the plasticised material shall not be placed on the market.
- Please refer to Regulation (EC) No 552/2009 to get more detail information
- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
  - ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1% by weight of the plasticised material shall not be placed on the market.
- Please refer to Regulation (EC) No 552/2009 to get more detail information.



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**SVHC**

**Test Requested:** As requested by client, SVHC screening is performed according to:

- (i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.
- (ii) One (1) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Sep 5, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.

**Test Method:** SGS In-House method-TJChemLab-TOP-004-4, TJChemLab-TOP-061, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD/MS and Colorimetric Method.

**Remark :**

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
 These lists are under evaluation by ECHA and may subject to change in the future.
- (2) Concerning article(s):  
 In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:  
<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

- (3) Concerning material(s):  
 Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

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If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- (4) Concerning substance and preparation:  
 If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
  - a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
  - a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
    - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
    - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
    - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or
    - (d) a substance for which there are Europe-wide workplace exposure limits.
- (5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.



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**Test Result: (Substances in the Candidate List of SVHC)**

| Batch | Substance Name                                | CAS No.                                | 002 Concentration (%) | RL (%) |
|-------|---|--|-----------------------|--------|
| I     | Cobalt dichloride*                            | 7646-79-9                              | NA^                   | 0.005  |
| III   | Boric acid*                                   | 10043-35-3,<br>11113-50-1              | NA^                   | 0.005  |
| III   | Disodium tetraborate, anhydrous*              | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | NA^                   | 0.005  |
| III   | Tetraboron disodium heptaoxide, hydrate*      | 12267-73-1                             | NA^                   | 0.005  |
| IV    | Cobalt(II) carbonate*                         | 513-79-1                               | NA^                   | 0.005  |
| IV    | Cobalt(II) diacetate*                         | 71-48-7                                | NA^                   | 0.005  |
| IV    | Cobalt(II) dinitrate*                         | 10141-05-6                             | NA^                   | 0.005  |
| IV    | Cobalt(II) sulphate*                          | 10124-43-3                             | NA^                   | 0.005  |
| VII   | Diboron trioxide*                             | 1303-86-2                              | NA^                   | 0.005  |
| XI    | Sodium perborate; perboric acid, sodium salt* | -                                      | NA^                   | 0.005  |
| XI    | Sodium peroxometaborate*                      | 7632-04-4                              | NA^                   | 0.005  |
| -     | Other tested SVHC in candidate list           | -                                      | ND                    | -      |

**Test Result: (Substances in the Consultation List of SVHC)**

| Batch | Substance Name  | CAS No.   | 002 Concentration (%) | RL (%) |
|-------|---|-----------|-----------------------|--------|
| /     | Tricobalt tetraoxide containing $\geq 0.1\%$ w/w nickel oxides* | 1308-06-1 | NA^                   | 0.005  |



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Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
  - (2) RL = Reporting Limit. All RL are based on homogenous material  
 ND = Not detected (lower than RL), ND is denoted on the SVHC substance.  
 NA^ = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.
  - (3) <sup>Δ</sup> CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8  
 ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
  - (4) \* The test result is based on the calculation of selected element(s) and to the worst-case scenario.  
 \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.  
 For detail information, please refer to the SGS REACH website: [www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)
- Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.
- RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- (5) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1)  $\geq 0.1\%$  (w/w).
  - (6) / = Substances in the Consultation List of SVHC



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**Appendix**
**Full list of tested SVHC:**

| Batch | No. | Substance Name  | CAS No.                  | RL (%) |
|-------|-----|---|--------------------------|--------|
| I     | 1   | 4,4'-Diaminodiphenylmethane(MDA)  | 101-77-9                 | 0.050  |
| I     | 2   | 5-tert-butyl-2,4,6-trinitro-m-xylene<br>(musk xylene)   | 81-15-2                  | 0.050  |
| I     | 3   | Alkanes, C10-13, chloro (Short Chain<br>Chlorinated Paraffins)  | 85535-84-8               | 0.050  |
| I     | 4   | Anthracene  | 120-12-7                 | 0.050  |
| I     | 5   | Benzyl butyl phthalate (BBP)  | 85-68-7                  | 0.050  |
| I     | 6   | Bis(2-ethylhexyl)phthalate (DEHP)   | 117-81-7                 | 0.050  |
| I     | 7   | Bis(tributyltin)oxide (TBTO)  | 56-35-9                  | 0.050  |
| I     | 8   | Cobalt dichloride*  | 7646-79-9                | 0.005  |
| I     | 9   | Diarsenic pentaoxide*   | 1303-28-2                | 0.005  |
| I     | 10  | Diarsenic trioxide*   | 1327-53-3                | 0.005  |
| I     | 11  | Dibutyl phthalate (DBP)   | 84-74-2                  | 0.050  |
| I     | 12  | Hexabromocyclododecane (HBCDD)<br>and all major diastereoisomers<br>identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -<br>HBCDD) $\Delta$ | 25637-99-4,<br>3194-55-6 | 0.050  |
| I     | 13  | Lead hydrogen arsenate*   | 7784-40-9                | 0.005  |
| I     | 14  | Sodium dichromate*  | 7789-12-0,<br>10588-01-9 | 0.005  |
| I     | 15  | Triethyl arsenate*  | 15606-95-8               | 0.005  |
| II    | 16  | 2,4-Dinitrotoluene  | 121-14-2                 | 0.050  |

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| Batch | No. | Substance Name   | CAS No.                                | RL (%) |
|-------|-----|--|--|--------|
| II    | 17  | Acrylamide   | 79-06-1                                | 0.050  |
| II    | 18  | Anthracene oil**   | 90640-80-5                             | 0.050  |
| II    | 19  | Anthracene oil, anthracene paste**                           | 90640-81-6                             | 0.050  |
| II    | 20  | Anthracene oil, anthracene paste, anthracene fraction**      | 91995-15-2                             | 0.050  |
| II    | 21  | Anthracene oil, anthracene paste, distn. Lights**            | 91995-17-4                             | 0.050  |
| II    | 22  | Anthracene oil, anthracene-low**                             | 90640-82-7                             | 0.050  |
| II    | 23  | Diisobutyl phthalate   | 84-69-5                                | 0.050  |
| II    | 24  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)* | 12656-85-8                             | 0.005  |
| II    | 25  | Lead chromate*   | 7758-97-6                              | 0.005  |
| II    | 26  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*          | 1344-37-2                              | 0.005  |
| II    | 27  | Pitch, coal tar, high temp. **                               | 65996-93-2                             | 0.050  |
| II    | 28  | Tris(2-chloroethyl)phosphate                                 | 115-96-8                               | 0.050  |
| III   | 29  | Ammonium dichromate*   | 7789-09-5                              | 0.005  |
| III   | 30  | Boric acid*  | 10043-35-3,<br>11113-50-1              | 0.005  |
| III   | 31  | Disodium tetraborate, anhydrous*                             | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | 0.005  |
| III   | 32  | Potassium chromate*  | 7789-00-6                              | 0.005  |
| III   | 33  | Potassium dichromate*  | 7778-50-9                              | 0.005  |



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| Batch | No. | Substance Name  | CAS No.                   | RL (%) |
|-------|-----|---|---------------------------|--------|
| III   | 34  | Sodium chromate*  | 7775-11-3                 | 0.005  |
| III   | 35  | Tetraboron disodium heptaoxide, hydrate*                                    | 12267-73-1                | 0.005  |
| III   | 36  | Trichloroethylene   | 79-01-6                   | 0.050  |
| IV    | 37  | 2-Ethoxyethanol   | 110-80-5                  | 0.050  |
| IV    | 38  | 2-Methoxyethanol  | 109-86-4                  | 0.050  |
| IV    | 39  | Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid* | 7738-94-5,-<br>13530-68-2 | 0.005  |
| IV    | 40  | Chromium trioxide*  | 1333-82-0                 | 0.005  |
| IV    | 41  | Cobalt(II) carbonate*   | 513-79-1                  | 0.005  |
| IV    | 42  | Cobalt(II) diacetate*   | 71-48-7                   | 0.005  |
| IV    | 43  | Cobalt(II) dinitrate*   | 10141-05-6                | 0.005  |
| IV    | 44  | Cobalt(II) sulphate*  | 10124-43-3                | 0.005  |
| V     | 45  | 1,2,3-trichloropropane  | 96-18-4                   | 0.050  |
| V     | 46  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich        | 71888-89-6                | 0.050  |
| V     | 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters     | 68515-42-4                | 0.050  |
| V     | 48  | 1-methyl-2-pyrrolidone  | 872-50-4                  | 0.050  |
| V     | 49  | 2-ethoxyethyl acetate   | 111-15-9                  | 0.050  |
| V     | 50  | Hydrazine   | 7803-57-8,<br>302-01-2    | 0.050  |



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| Batch | No. | Substance Name  | CAS No.                     | RL (%) |
|-------|-----|---|-----------------------------|--------|
| V     | 51  | strontium chromate*                                     | 7789-06-2                   | 0.005  |
| VI    | 52  | 1,2-Dichloroethane                                      | 107-06-2                    | 0.050  |
| VI    | 53  | 2,2'-dichloro-4,4'-methylenedianiline                   | 101-14-4                    | 0.050  |
| VI    | 54  | 2-Methoxyaniline; o-Anisidine                           | 90-04-0                     | 0.050  |
| VI    | 55  | 4-(1,1,3,3-tetramethylbutyl)phenol                      | 140-66-9                    | 0.050  |
| VI    | 56  | Aluminosilicate Refractory Ceramic Fibres*              | 650-017-00-8<br>(Index no.) | 0.005  |
| VI    | 57  | Arsenic acid*   | 7778-39-4                   | 0.005  |
| VI    | 58  | Bis(2-methoxyethyl) ether                               | 111-96-6                    | 0.050  |
| VI    | 59  | Bis(2-methoxyethyl) phthalate                           | 117-82-8                    | 0.050  |
| VI    | 60  | Calcium arsenate*                                       | 7778-44-1                   | 0.005  |
| VI    | 61  | Dichromium tris(chromate)*                              | 24613-89-6                  | 0.005  |
| VI    | 62  | Formaldehyde, oligomeric reaction products with aniline | 25214-70-4                  | 0.050  |
| VI    | 63  | Lead diazide, Lead azide*                               | 13424-46-9                  | 0.005  |
| VI    | 64  | Lead dipicrate*   | 6477-64-1                   | 0.005  |
| VI    | 65  | Lead styphnate*   | 15245-44-0                  | 0.005  |
| VI    | 66  | N,N-dimethylacetamide                                   | 127-19-5                    | 0.050  |
| VI    | 67  | Pentazinc chromate octahydroxide*                       | 49663-84-5                  | 0.005  |
| VI    | 68  | Phenolphthalein   | 77-09-8                     | 0.050  |
| VI    | 69  | Potassium hydroxyoctaoxodizincatedichromate*            | 11103-86-9                  | 0.005  |



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| Batch | No. | Substance Name  | CAS No.                     | RL (%) |
|-------|-----|---|-----------------------------|--------|
| VI    | 70  | Trilead diarsenate*   | 3687-31-8                   | 0.005  |
| VI    | 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres*   | 650-017-00-8<br>(Index no.) | 0.005  |
| VII   | 72  | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) <sup>§</sup> | 2580-56-5                   | 0.050  |
| VII   | 73  | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <sup>§</sup>                  | 548-62-9                    | 0.050  |
| VII   | 74  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)   | 112-49-2                    | 0.050  |
| VII   | 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4                    | 0.050  |
| VII   | 76  | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)   | 90-94-8                     | 0.050  |
| VII   | 77  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <sup>§</sup>  | 561-41-1                    | 0.050  |
| VII   | 78  | Diboron trioxide*   | 1303-86-2                   | 0.005  |
| VII   | 79  | Formamide   | 75-12-7                     | 0.050  |
| VII   | 80  | Lead(II) bis(methanesulfonate)*   | 17570-76-2                  | 0.005  |
| VII   | 81  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1                    | 0.050  |
| VII   | 82  | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)   | 2451-62-9                   | 0.050  |
| VII   | 83  | α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <sup>§</sup>  | 6786-83-0                   | 0.050  |
| VII   | 84  | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)   | 59653-74-6                  | 0.050  |



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| Batch | No. | Substance Name   | CAS No.                               | RL (%) |
|-------|-----|--|---------------------------------------|--------|
| VIII  | 85  | [Phthalato(2-)]dioxotrilead*   | 69011-06-9                            | 0.005  |
| VIII  | 86  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0                            | 0.050  |
| VIII  | 87  | 1,2-Diethoxyethane   | 629-14-1                              | 0.050  |
| VIII  | 88  | 1-Bromopropane   | 106-94-5                              | 0.050  |
| VIII  | 89  | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2                           | 0.050  |
| VIII  | 90  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  | -                                     | 0.050  |
| VIII  | 91  | 4,4'-Methylenedi- <i>o</i> -toluidine  | 838-88-0                              | 0.050  |
| VIII  | 92  | 4,4'-Oxydianiline and its salts  | 101-80-4                              | 0.050  |
| VIII  | 93  | 4-Aminoazobenzene  | 60-09-3                               | 0.050  |
| VIII  | 94  | 4-Methyl- <i>m</i> -phenylenediamine   | 95-80-7                               | 0.050  |
| VIII  | 95  | 4-Nonylphenol, branched and linear   | -                                     | 0.050  |
| VIII  | 96  | 6-Methoxy- <i>m</i> -toluidine   | 120-71-8                              | 0.050  |
| VIII  | 97  | Acetic acid, lead salt, basic*   | 51404-69-4                            | 0.005  |
| VIII  | 98  | Biphenyl-4-ylamine   | 92-67-1                               | 0.050  |
| VIII  | 99  | Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5                             | 0.050  |
| VIII  | 100 | Cyclohexane-1,2-dicarboxylic anhydride,<br>cis-cyclohexane-1,2-dicarboxylic anhydride,<br>trans-cyclohexane-1,2-dicarboxylic anhydride | 85-42-7,<br>13149-00-3,<br>14166-21-3 | 0.050  |
| VIII  | 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3                              | 0.050  |



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| Batch | No. | Substance Name  | CAS No.    | RL (%) |
|-------|-----|---|------------|--------|
| VIII  | 102 | Dibutyltin dichloride (DBTC)  | 683-18-1   | 0.050  |
| VIII  | 103 | Diethyl sulphate  | 64-67-5    | 0.050  |
| VIII  | 104 | Diisopentylphthalate  | 605-50-5   | 0.050  |
| VIII  | 105 | Dimethyl sulphate   | 77-78-1    | 0.050  |
| VIII  | 106 | Dinoseb   | 88-85-7    | 0.050  |
| VIII  | 107 | Dioxobis(stearato)trilead*  | 12578-12-0 | 0.005  |
| VIII  | 108 | Fatty acids, C16-18, lead salts*  | 91031-62-8 | 0.005  |
| VIII  | 109 | Furan   | 110-00-9   | 0.050  |
| VIII  | 110 | Henicosafuoroundecanoic acid  | 2058-94-8  | 0.050  |
| VIII  | 111 | Heptacosafuorotetradecanoic acid  | 376-06-7   | 0.050  |
| VIII  | 112 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | ☆          | 0.050  |
| VIII  | 113 | Lead bis(tetrafluoroborate)*  | 13814-96-5 | 0.005  |
| VIII  | 114 | Lead cyanamidate*   | 20837-86-9 | 0.005  |
| VIII  | 115 | Lead dinitrate*   | 10099-74-8 | 0.005  |
| VIII  | 116 | Lead monoxide*  | 1317-36-8  | 0.005  |
| VIII  | 117 | Lead oxide sulfate*   | 12036-76-9 | 0.005  |
| VIII  | 118 | Lead tetroxide (orange lead)*   | 1314-41-6  | 0.005  |
| VIII  | 119 | Lead titanium trioxide*   | 12060-00-3 | 0.005  |



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| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| VIII  | 120 | Lead titanium zirconium oxide*                            | 12626-81-2  | 0.005  |
| VIII  | 121 | Methoxyacetic acid  | 625-45-6    | 0.050  |
| VIII  | 122 | Methyloxirane (Propylene oxide)                           | 75-56-9     | 0.050  |
| VIII  | 123 | N,N-Dimethylformamide                                     | 68-12-2     | 0.050  |
| VIII  | 124 | N-Methylacetamide   | 79-16-3     | 0.050  |
| VIII  | 125 | N-Pentyl-isopentylphthalate                               | 776297-69-9 | 0.050  |
| VIII  | 126 | <i>o</i> -Aminoazotoluene                                 | 97-56-3     | 0.050  |
| VIII  | 127 | <i>o</i> -Toluidine                                       | 95-53-4     | 0.050  |
| VIII  | 128 | Pentacosfluorotridecanoic acid                            | 72629-94-8  | 0.050  |
| VIII  | 129 | Pentalead tetraoxide sulphate*                            | 12065-90-6  | 0.005  |
| VIII  | 130 | Pyrochlore, antimony lead yellow*                         | 8012-00-8   | 0.005  |
| VIII  | 131 | Silicic acid, barium salt, lead-doped*                    | 68784-75-8  | 0.005  |
| VIII  | 132 | Silicic acid, lead salt*                                  | 11120-22-2  | 0.005  |
| VIII  | 133 | Sulfurous acid, lead salt, dibasic*                       | 62229-08-7  | 0.005  |
| VIII  | 134 | Tetraethyllead*   | 78-00-2     | 0.005  |
| VIII  | 135 | Tetralead trioxide sulphate*                              | 12202-17-4  | 0.005  |
| VIII  | 136 | Tricosfluorododecanoic acid                               | 307-55-1    | 0.050  |
| VIII  | 137 | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6   | 0.005  |
| VIII  | 138 | Trilead dioxide phosphonate*                              | 12141-20-7  | 0.005  |



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| Batch | No. | Substance Name  | CAS No.    | RL (%) |
|-------|-----|---|------------|--------|
| IX    | 139 | 4-Nonylphenol, branched and linear, ethoxylated   | -          | 0.050  |
| IX    | 140 | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1  | 0.050  |
| IX    | 141 | Cadmium oxide*  | 1306-19-0  | 0.005  |
| IX    | 142 | Cadmium*  | 7440-43-9  | 0.005  |
| IX    | 143 | Dipentyl phthalate (DPP)  | 131-18-0   | 0.050  |
| IX    | 144 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1   | 0.050  |
| X     | 145 | Cadmium sulphide*   | 1306-23-6  | 0.005  |
| X     | 146 | Dihexyl phthalate   | 84-75-3    | 0.050  |
| X     | 147 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0   | 0.050  |
| X     | 148 | Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7  | 0.050  |
| X     | 149 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 96-45-7    | 0.050  |
| X     | 150 | Lead di(acetate)*   | 301-04-2   | 0.005  |
| X     | 151 | Trixylyl phosphate  | 25155-23-1 | 0.050  |
| XI    | 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4 | 0.050  |
| XI    | 153 | Cadmium chloride*   | 10108-64-2 | 0.005  |
| XI    | 154 | Sodium perborate; perboric acid, sodium salt*   | -          | 0.005  |
| XI    | 155 | Sodium peroxometaborate*  | 7632-04-4  | 0.005  |



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| Batch | No. | Substance Name   | CAS No.                   | RL (%) |
|-------|-----|--|---------------------------|--------|
| XII   | 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1                | 0.050  |
| XII   | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7                 | 0.050  |
| XII   | 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                | 0.050  |
| XII   | 159 | Cadmium fluoride*  | 7790-79-6                 | 0.005  |
| XII   | 160 | Cadmium sulphate*  | 10124-36-4,<br>31119-53-6 | 0.005  |
| XII   | 161 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE) | -                         | 0.050  |
| XIII  | 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate   | 68515-51-5,<br>68648-93-1 | 0.050  |
| XIII  | 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]                      | -                         | 0.050  |
| XIV   | 164 | 1,3-propanesultone   | 1120-71-4                 | 0.050  |
| XIV   | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)  | 3864-99-1                 | 0.050  |
| XIV   | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)  | 36437-37-3                | 0.050  |
| XIV   | 167 | Nitrobenzene   | 98-95-3                   | 0.050  |



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| Batch | No. | Substance Name   | CAS No.                               | RL (%) |
|-------|-----|--|---------------------------------------|--------|
| XIV   | 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 375-95-1,<br>21049-39-8,<br>4149-60-4 | 0.050  |
| XV    | 169 | Benzo[def]chrysene (Benzo[a]pyrene)  | 50-32-8                               | 0.050  |
| XVI   | 170 | 4,4'-isopropylidenediphenol (bisphenol A)  | 80-05-7                               | 0.050  |
| XVI   | 171 | 4-Heptylphenol, branched and linear  | -                                     | 0.050  |
| XVI   | 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 3108-42-7,<br>335-76-2,<br>3830-45-3  | 0.050  |
| XVI   | 173 | p-(1,1-dimethylpropyl)phenol   | 80-46-6                               | 0.050  |
| XVII  | 174 | Perfluorohexane-1-sulphonic acid and its salts   | -                                     | 0.050  |
| XVIII | 175 | Dodecachloropentacyclo[12.2.1.16,9.0 2,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof] | -                                     | 0.050  |
| XVIII | 176 | Benz[a]anthracene  | 56-55-3,<br>1718-53-2                 | 0.050  |
| XVIII | 177 | Cadmium nitrate*   | 10022-68-1,<br>10325-94-7             | 0.005  |
| XVIII | 178 | Cadmium carbonate*   | 513-78-0                              | 0.005  |
| XVIII | 179 | Cadmium hydroxide*   | 21041-95-2                            | 0.005  |
| XVIII | 180 | Chrysene   | 218-01-9,<br>1719-03-5                | 0.050  |
| XVIII | 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]               | -                                     | 0.050  |
| /     | 182 | Tricobalt tetraoxide containing ≥ 0.1% w/w nickel oxides*  | 1308-06-1                             | 0.005  |



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| MQEP-B+(-80M)-10215-079        | MQEP-AA4-14-12(-150M)-20000-166 |
| MQEP-B+(-80M)-10215-193        | MQEP-AA4-14-13(-80M)-20201-165  |
| MQEP-B+(-120M)-10215-194       | MQEP-AA4-14-13(-150M)-20201-166 |
| MQEP-B+(-120M)-10215-195       | MQEP-AA4-B(-80M)-20172-166      |
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| MQEP-B+(-80M)-10215-303        | MQEP-13-9(-80M)-20143-077       |
| MQEP-B+(-80M)-10215-310        | MQEP-13-9(-80M)-20063-077       |
| MQEP-B+(-80M)-20056-072        | MQEP-13-9(-80M)-20063-079       |
| MQEP-B+(-80M)-20056-076        | MQEP-13-9(-80M)-20063-190       |
| MQEP-B+(-80M)-20056-079        | MQEP-13-9(-80M)-20011-079       |
| MQEP-B+(-80M)-20056-110        | MQEP-14-9(-80M)-20061-301       |
| MQEP-B+(-80M)-20056-190        | MQEP-13-9HD(-80M)-20179-197     |
| MQEP-B+(-80M)-20056-196        | MQEP-13-9HD(-80M)-20179-077     |
| MQEP-B+(-80M)-20056-198        | MQEP-13-9HD(-80M)-20179-079     |
| MQEP-AA4-B+(-80M)-20056-351    | MQEP-AA4-13-9HD(-80M)-20179-350 |
| MQEP-AA4-B+(-80M)-20056-354    | MQEP-AA4-13-9HD(-80M)-20179-351 |
| MQEP-B+(-80M)-20056-310        | MQEP-13-9HD(-80M)-20179-314     |
| MQEP-B+(-120M)-20364-352       | MQEP-7-8(-80M)-20171-077        |
| MQEP-B+(-80M)-20364-303        | MQEP-15-9HD(-80M)-20178-072     |
| MQEP-B+(-80M)-20364-312        | MQEP-15-9HD(-80M)-20178-077     |
| MQEP-B+(-80M)-20364-314        | MQEP-15-9HD(-80M)-20305-077     |
| MQEP-B+(-80M)-20364-315        | MQEP-15-9HD(-80M)-20305-196     |
| MQEP-B(-80M)-20172-077         | MQEP-15-9HD(-80M)-20305-305     |
| MQEP-B(-80M)-20172-198         | MQEP-15-9HD(-60M)-20305-311     |
| MQEP-B(-80M)-20172-305         | MQEP-15-9HD(-80M)-20305-307     |
| MQEP-B(-80M)-20173-077         | MQEP-15-9HD(-80M)-20305-310     |
| MQEP-B(-80M)-20299-300         | MQEP-15-9HD(-80M)-20305-313     |
| MQEP-B(-80M)-20052-077         | MQEP-15-9HD(-80M)-20305-315     |
| MQEP-AA4-15-10(-80M)-20450-355 | MQEP-15-9HD(-80M)-20305-330     |
| MQEP-15-10(-80M)-20450-334     | MQEP-15-9HD(-80M)-20305-332     |
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| MQEP-A(-80M)-10179-077         | MQEP-AA4-15-9HD(-80M)-20305-351 |
| MQEP-A(-80M)-10179-071         | MQEP-16-9HD(-80M)-20177-310     |
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| MQEP-AA2-B(-80M)-20172-099     | MQEP-12-8HD(-80M)-20175-310   |
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No. TSNEC1800102703

Date: Jan 30, 2018

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|                      |                         |
|----------------------|-------------------------|
| MQIP-M760-20000-216  | MQIP-M750C-20000-212    |
| MQIP-N750-20076-215  | MQIP-N765D-20178-217    |
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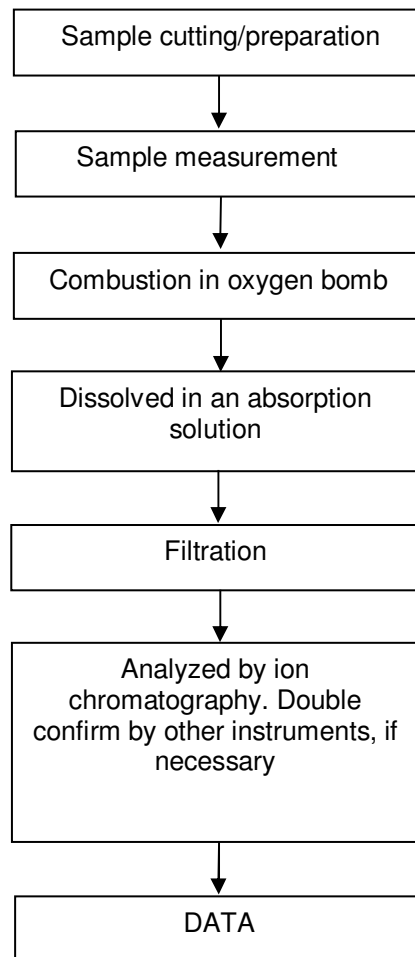
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### Halogen Testing Flow Chart

- 1) Name of the person who made testing: Carson Fang
- 2) Name of the person in charge of testing: Rex Zhu



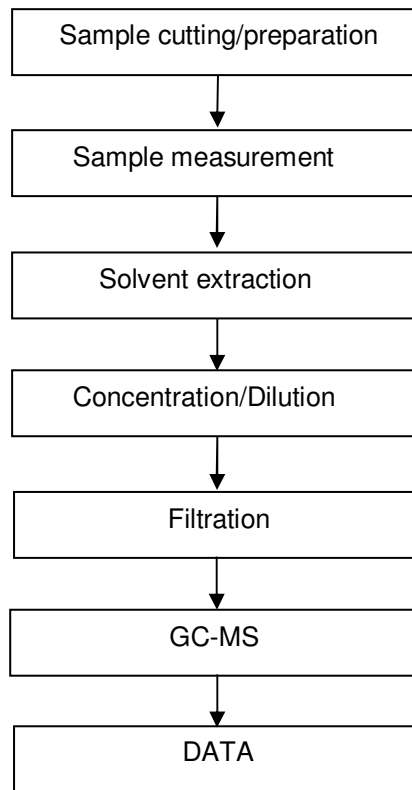
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### Phthalate Testing Flow Chart

- 1) Name of the person who made testing: Allen Xiong
- 2) Name of the person in charge of testing: Rex Zhu



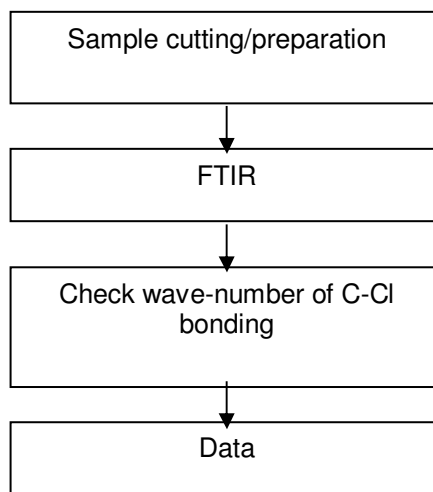
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### PVC Testing Flow Chart

- 1) Name of the person who made testing: Sally Liang
- 2) Name of the person in charge of testing: Linda Li



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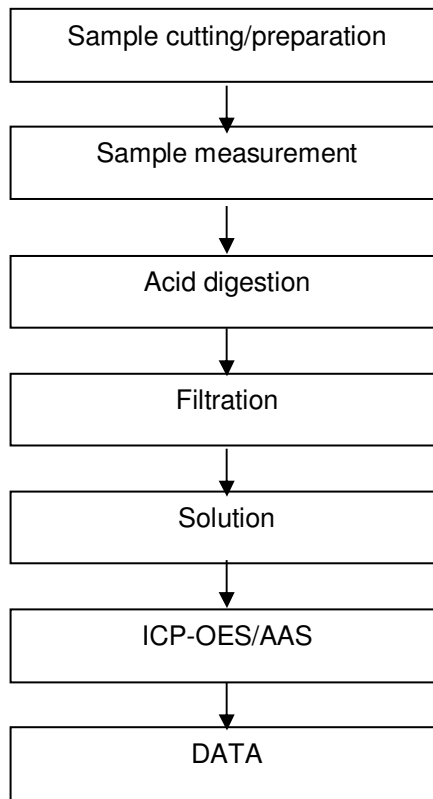
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Elements Testing Flow Chart

- 1) Name of the person who made testing: Bob Zhang/Sunny Qin/ Cathy Zhang
- 2) Name of the person in charge of testing: Summer Jin/Jan Shi/ Aaron Wang



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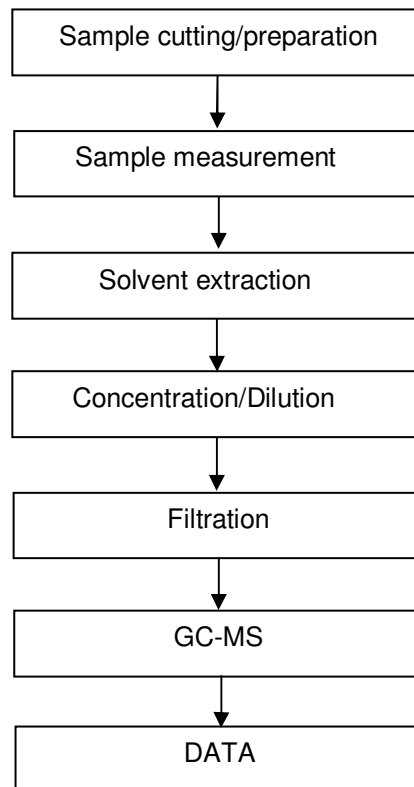
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### PAHs Testing Flow Chart

- 1) Name of the person who made testing: Cyhan Chen
- 2) Name of the person in charge of testing: Rex Zhu



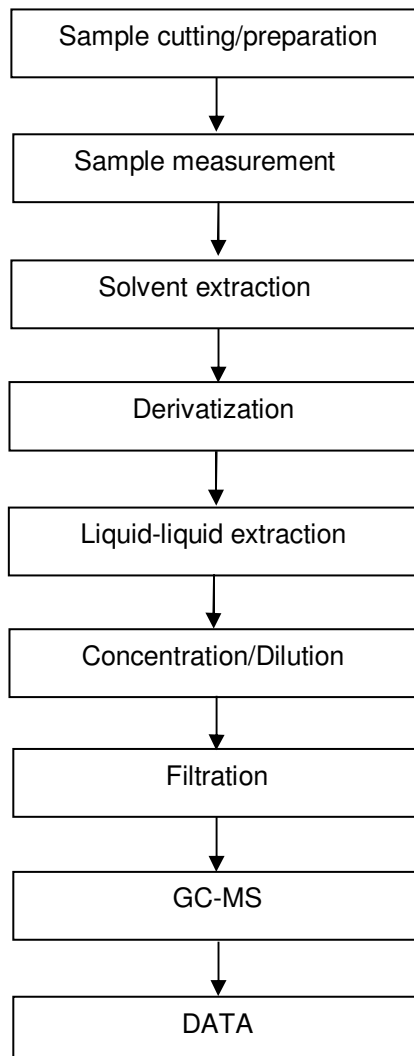
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### TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Ann Wang
- 2) Name of the person in charge of testing: Rex Zhu



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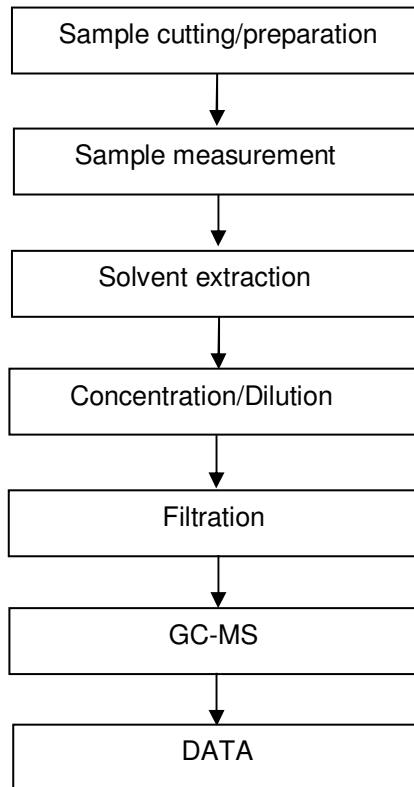
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### DMF Testing Flow Chart

- 1) Name of the person who made testing: Jin Wang
- 2) Name of the person in charge of testing: Rex Zhu



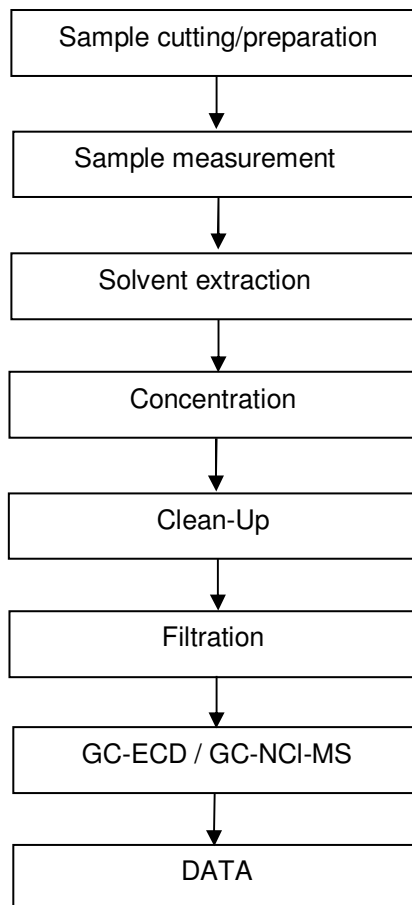
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### MCCP/SCCP Testing Flow Chart

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- 2) Name of the person in charge of testing: Rex Zhu



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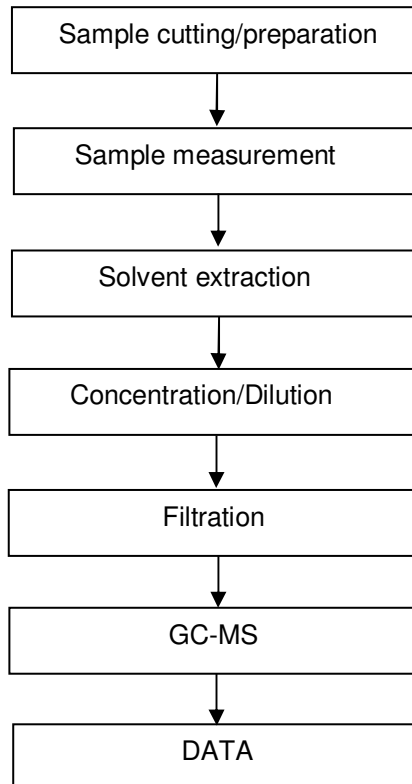
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### HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Ann Wang
- 2) Name of the person in charge of testing: Rex Zhu



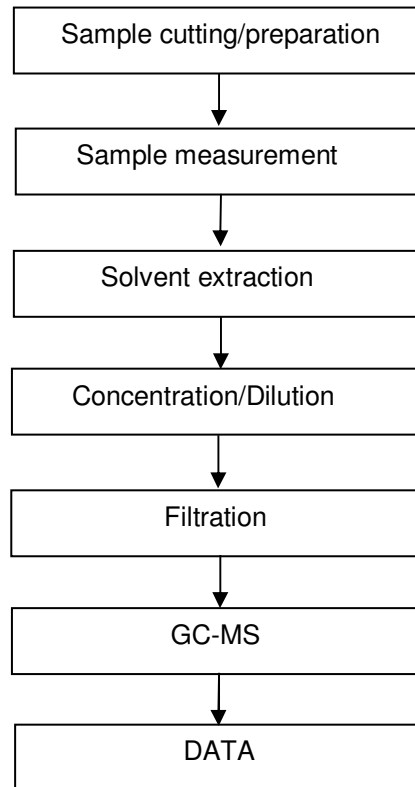
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### Musk Ketone Testing Flow Chart

- 1) Name of the person who made testing: Jin Wang
- 2) Name of the person in charge of testing: Rex Zhu



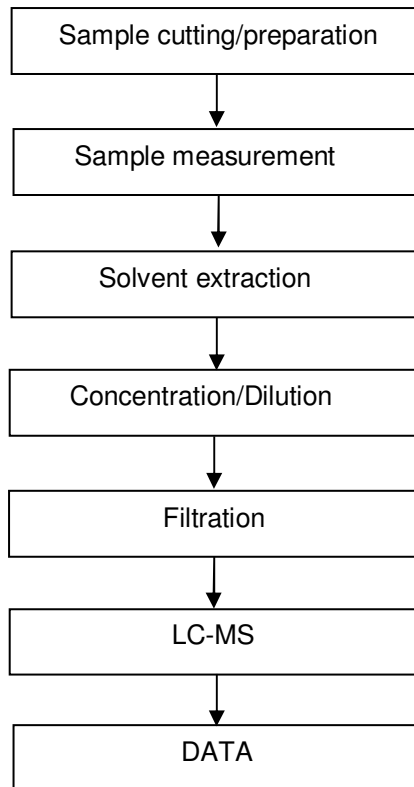
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**PFOS/PFOA Testing Flow Chart**

- 1) Name of the person who made testing: Jin Wang
- 2) Name of the person in charge of testing: Rex Zhu



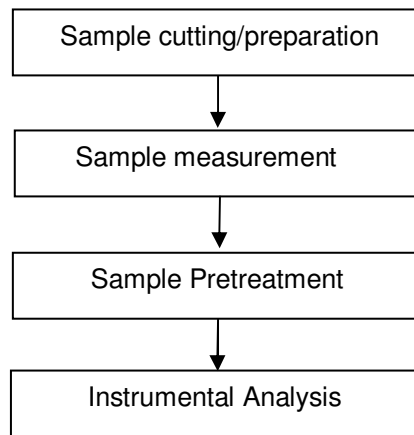
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## ATTACHMENTS

### SVHC Testing Flow Chart

- 1) Name of the person who made testing: Cathy Zhang/Jin Wang
- 2) Name of the person in charge of testing: Aaron Wang/Rex Zhu



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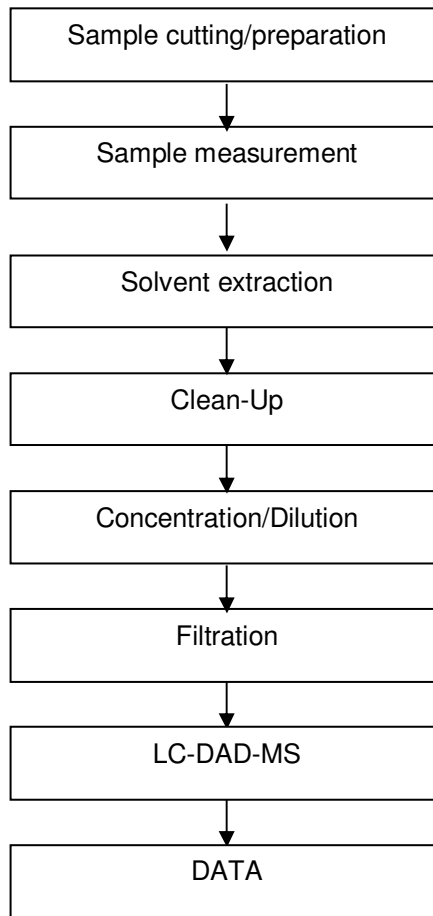




ATTACHMENTS

**BPA Testing Flow Chart**

- 1) Name of the person who made testing: Neil Shang
- 2) Name of the person in charge of testing: Judy Li



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